

Mission: Lifeline Montana STEMI Inter-Hospital Transfer Guideline

Benefis - Great Falls

Phone: 1-800-972-4000 or 406-455-4320 Fax: 406-455-4584

Billings Clinic - Billings

Phone: 1-800-325-1774 Fax: appropriate # given at time of phone call

Bozeman Deaconess - Bozeman

Phone: 406-414-1000 Fax: 406-414-5001

Community Medical Center - Missoula

Phone: 406-327-4171 Fax: 406-327-4504

Kalispell Regional Medical Center - Kalispell

Phone: 406-752-1733 Fax: 406-756-4717

St. James Healthcare - Butte

Phone: 1-844-202-2495 Fax: 406-723-2517

St. Patrick's Hospital - Missoula

Phone: 1-888-878-7287 Fax: 406-329-5639

St. Peter's Hospital - Helena

Phone: 406-444-2150 Fax: 406-447-2695

St. Vincent's Hospital - Billings

Phone: 1-800-331-0222 Fax: 406-237-4125

AHA Mission: Lifeline Ideal STEMI Treatment Goals (for all eligible patients receiving any reperfusion (PCI or fibrinolysis) therapy):

- First Medical Contact-to-First ECG time ≤10 minutes
- Fibrinolytic–eligible patients with Door-to-Needle time ≤ 30 minutes
- Patients transferred for Primary PCI to a Receiving Center with referring center Door in-Door out time (Length of Stay) ≤ 45 minutes (guideline recommendation is ≤ 30 minutes)
- Patients transferred for Primary PCI to a Receiving Center with referring center ED Doorto- PCI device time < 120 minutes (includes transport time)
- All STEMI patients without a contraindication receiving aspirin before ED discharge

For those patients with a contraindication to transfer for PCI, ensure the following are completed during their hospitalization:

- Aspirin within 24 hours of hospital arrival, and aspirin at discharge
- Beta blocker at discharge
- LDL >100 who receive statins or lipid lowering drugs
- STEMI patients with left ventricular systolic dysfunction on ACEI/ARB at discharge
- STEMI patients who smoke receive smoking cessation counseling at discharge

Upon Transfer Fax the following documents to the accepting facility: 12 Lead ECG, ED Record, Lab Results, Current Medication Record, MT M:L STEMI transfer documentation

Mission: Lifeline MT STEMI (ST-Segment Elevation Myocardial Infarction) Guideline

STEMI Inter-Hospital Transfer

PHYSICIAN ORDERS (Page 1 of 2)

Page 1: MD Orders Page 2: RN Document



Diagnostic Criteria for STEMI

- ST elevation at the J point in at least 2 contiguous leads of ≥2 mm (0.2 mV) in men or ≥1.5 mm (0.15 mV) in women in leads V2–V3 and/or of ≥ 1 mm (0.1mV) in other contiguous chest leads or the limb leads.
- New or presumably new LBBB at presentation occurs infrequently, may interfere with ST-elevation analysis, and should not be considered diagnostic of acute myocardial infarction (MI) in isolation. If doubt persists, immediate referral for invasive angiography may be necessary. Consult with PCI receiving center.
- ECG demonstrates evidence of ST depression suspect of a Posterior MI consult with PCI receiving center
- (If initial ECG is not diagnostic but suspicion is high for STEMI. obtain serial ECG at 5-10 minute intervals)

ACTIVATE TRANSPORT and Estimate Time to STEMI Receiving Center

Notify STEMI Receiving Hospital and Activate STEMI Alert

□Hospital		Allergies:					
□ Call:	Known Allergy to Shellfish, Iodine or IV Contrast? Yes No Reaction: a STEMI treatment strategy of PRIMARY Optional Medications						
STANDARD ORDERS & LABS ☐ Apply Continuous Cardiac Monitor ☐ Vitals q 5 min x3, then q 10 min (with automatic BP and pulse oximetry) ☐ Insert (2) peripheral large bore IVs (0.9% NaCl @100mL/hr or Saline lock) ☐ Portable CXR STAT ☐ Labs: BMP, CBC, Troponin, Lipid profile, PT/INR, aPTT, all labs STAT, do not delay transfer for results – fax when available Code Status: ☐ Full Code ☐ DNR If DNR. consult with accepting physician prior to transfer	PCI or FI - Estimate to PCI fact Air: Persiste Contrair	ed transport time fro cility minutes by: or Groundert Symptom onset to hours ago ndications or Precau	ray, considering: m First Medical Contact nd: to Presentation Time: tions to Lytics: the for contraindications)	Optional Medications Nitroglycerin IV or 0.4 mg SL Morphine Sulfate 1 - 5 mg IV Ondansetron (Zofran) 4 mg PO or IV Metoprolol 25 mg PO CONTRAINDICATION FOR METOPROLOL Do not give if any of the following: Signs of heart failure or shock, heart rate less than 60 or more than110, systolic blood pressure less than 100, second or third degree heart block, severe asthma or reactive airway disease			
 □ PRIMARY PCI - Direct to CAT Goal: First Medical Contact to PCI LESS □ Aspirin 324 mg chewed □ Ticagrelor (Brilinta) 180 mg PO OR □ Clopidogrel (Plavix) 600 mg PO (*do not give) □ Anticoagulant: choose one: □ Heparin: IV bolus of 70-100 units/kg □ enoxaparin (Lovenox) pts < age 75: 30 mg IN SubQ 15 min later and q 12 hrs □ enoxaparin (Lovenox) Pts ≥ age 75: 0.75 mg □ Transport patient directly to Cath Lab for PCI Do not give Fibrinolytics (TNKase, rPA, or □ Administer Oxygen as needed to keep SpO2 > 	THAN < 1 e both Play V push NOV g/kg SubQ o	vix & Brilinta) W, then 1 mg/kg	Goal: When First Medical Contact to PCI anticipated ≥ 120 min Door to lytic administration goal LESS THAN ≤ 30 minutes Aspirin 324 mg chewed Tenecteplase IV (TNKase) per attached protocol Plavix 300 mg PO (If patient > 75 yrs, consider reducing dosage to 75 mg PO) Heparin IV Bolus (60 Units/kg, max 4,000 Units) Heparin IV Drip (12 Units/kg/hr, max 1,000 Units/hr) Transport patient directly to PCI capable hospital Administer Oxygen as needed to keep SpO2 > 94% MD Signature: Date:				
PHYSICIAN'S ORDERS Regional Hospital: Regional Hospital City: Regional ED Phone: ED Physician (print name):		ised 01-15-2015	Patient Name:				

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STEMI Inter-Hospital Transfer

		NURSING	DOCUM	ENTATIO	ON Tool (Page	2 of 2)				
Tenecteplase (TNKase) Dosing			Weight: lb. kg			Height: in.		Age:	yrs	
Patient weight (kg)	TNK (mg)	TNK (mL)	Medication			Dose	Time Sta	art Time Stop	RN (Initials)	
Less than 60 kg	30 mg	6 mL							Tur (millions)	
60 or more but less than 70	35 mg	7 mL	Aspirin (81 mg chew x 4) Ticegrelor *(Brilinta) Oral			324 mg				
70 or more but less than 80	40 mg	8 mL	(PCI therapy arm only)							
80 or more but less than 90	45 mg	9 mL	* Do not g	ive Brilinta an	Plavix together	180 mg				
90 or more kg 50 mg 10 mL			Clopidogrel (Plavix) Oral PCI therapy dose			600 mg				
FIBRINOLYSIS CONSIDERATIONS				rel (Plavix) C)ral	000 mg				
ABSOLUTE CONTRAINDICATIONS FOR FIBRINOLYSIS (TNK) IN STEMI 1. Any prior intracranial hemorrhage 2. Known structural cerebral vascular lesion (e.g., arteriovenous malformation) 3. Known malignant intracranial neoplasm (primary or metastatic) 4. Ischemic stroke within 3 mo except acute ischemic stroke within 4.5 hrs 5. Suspected aortic dissection			Lytic therapy dose Heparin IV Bolus PCI: 70-100 units/kg Lytics: 60 units/kg, max 4000 units			300 mg				
						units				
			Heparin IV Infusion							
			12 units/kg/hr, max 1000 units/hr			units/hr				
6. Active bleeding or bleeding di			Tenecteplase (TNKase) IV * Do not give Ticegrelor with Lytic (TNK)			mg (= mL)				
Significant closed-head or facial trauma within 3 months Intracranial or intraspinal surgery within 2 mo		Nitroglycerin Sublingual			0.4mg					
9. Severe uncontrolled hypertension (unresponsive to emergency therapy)					dication within past	0.4mg				
10. For streptokinase, prior treatment within the previous 6 mo			,	cated) 🗆 No	0.4mg					
RELATIVE CONTRAINDICATIONS FOR FIBRINOLYSIS: (TNK) IN STEMI			Nitroglyco	erin IV Infusi	on	mcg/min				
 History of chronic, severe, poorly controlled hypertension Significant hypertension on presentation (SBP > 180 or DBP > 110 mmHg) History of prior ischemic stroke more than 3 months, dementia, or known intracranial pathology not covered in contraindications Traumatic or prolonged CPR (> 10 minutes) 		Morphine Sulfate IV			mg					
		Ondansetron (Zofran) Oral			4 mg					
		Ondansetron (Zofran) IV			4 mg					
5. Major surgery (within last 3 w	eeks)		Metoprolol 25 mg Oral			·g				
Recent internal bleeding (within last 2-4 weeks) Noncompressible vascular punctures					mg					
8. Pregnancy			Age < 75 yrs: Enoxaparin (Lovenox) 30 IV Push then 1 mg/kg SubQ 15 mir			30 mg				
Active peptic ulcer Current use of anticoagulants		later and then q 12 hours			mg					
		Age ≥ 75 yrs: Enoxaparin (Lovenox) 0.75mg/kg SubQ and then q 12 hours			mg					
				<u> </u>	, , , , , , , , , , , , , , , , , , , ,	_				
Notes:										
			Но	spital	□ Copy ECG	6, ED physician a	nd Nur	ses docume	ntation and	
□ Call:				- p	send with patient – do not delay transport					
Request Activation of STEMI Protocol Call Report, when patient leaves your hospital and confirm upon					☐ Fax All paperwork to referring Hospital (ECG, Labs, Orders,					
			date FTA		Vital Signs, Phy	ysician Orders, Note	es, Medio	cation administ	ration record)	
·	•									
□ Fax records to										
Please Document Times: Initial Chest Pain Onset Pain Scale 0-10 (10 being sevent and pre-Hospital ECG time (if available) Referring Hospital Arrival (Door – In) Referring Hospital 1st ECG Time 2nd ECG			h a i a a a a			Print):				
			,		RN Signature: Date: Time:					
										Allergies:
					5 Time Transport Activated 6 STEMI Alert Activation (STEMI Receiving Hospital					
			ital contacte	ed)						
7 EMS Transport Arrival Time 8 Referring Hospital Departure (Door-Out)					Emorgonay Ca	ntact Nama:				
						Contact Name:				
NURSE DOCUMENT	ATION DN nh	one number	_	Patient	Name:					
HONGE DOOGNEN	ATTIVITY KIN PITC	one number		1 attent	i tuille.					
Hospital:										
City:			45.50							
		Revised 01	-15-2015							